

EXPRESSION VECTOR OF DTDST GENE

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Abstract of JP11146790

PROBLEM TO BE SOLVED: To obtain the subject new vector containing a DNA sequence encoding a mammalian sulfate transporter, not containing the DNA sequence of 5' non- translation region of the gene and useful for detection of a therapeutic agent for a bone or cartilage disease, a gene therapeutic agent or the like.

SOLUTION: This vector is the new one for expressing a sulfate transporter, including a DNA sequence encoding a mammalian sulfate transporter (an expression product of DTDST gene), and not including the DNA sequence of 5' non- translation region of the mammalian sulfate transporter gene. The vector has a high expression efficiency and useful for a method for screening a therapeutic agent for a bone or cartilage disease, an agent for gene therapy of the bone or cartilage disease or the like. The vector for expression is obtained by cloning the vector by using a cDNA derived from a rat osteoblast-like cell as a template and a partial sequence of the DTDST gene as a primer, incorporating the obtained DTDST gene to a cassette cosmid derived from an adenovirus genome, and introducing the incorporated cosmid to a parent virus.

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